**Homework 21.5 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Perimeter, Area and Interior Angles Review Period:\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Failure to show work on all problems will result in a LaSalle.**

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| Write the following formulas:  Area of a circle = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Area of a triangle = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Area of a rectangle = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Write the following formulas:  Circumference of a circle = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Perimeter of a rectangle = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. How many centimeters long is the diameter of a circle whose area is 144 cm2? | 2. A triangle with an area of 100 cm2 has a base that is 10 cm long. What is the triangle’s height? |
| 3. The perimeter of a rectangle is 18 feet. The length of the rectangle is half as long as its width. Find the length and width of the rectangle. | 4. A cut is made from the bottom of a 6 foot by 10 foot rectangle so that it leaves a 1 foot strip along the remaining sides as shown in the diagram below. What is the perimeter of the remaining portion of the rectangle?  10 ft.  6 ft.  1 ft. |
| 5. What is the area of the triangle below? | 6. Find the measure of angle B. |
| 7. What is the circumference of a circle with a diameter of 10 inches?  Exact answer = \_\_\_\_\_\_\_\_\_\_\_\_  Approximate answer = \_\_\_\_\_\_\_\_\_ | 8. What is the area of this circle?    Exact answer = \_\_\_\_\_\_\_\_\_\_\_\_  Approximate answer = \_\_\_\_\_\_\_\_\_ |
| 9. What is the circumference of this circle?    Exact answer = \_\_\_\_\_\_\_\_\_\_\_\_  Approximate answer = \_\_\_\_\_\_\_\_\_ | 10. Find the measure of angle A. |
| 11. How many 1-foot by 1-foot tiles are needed to cover the floor of a 12-foot by 10-foot room and a 3-foot by 13-foot hallway? | 12. Solve for angle A. |